

# GEM

D I G I T A L   K E Y B O A R D S

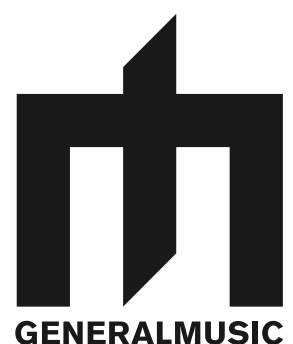


## Multiple-USB-MIDI-Bridge-Overpass

**Installing instructions**

**mumbo**

• English



*The illustrations and the screens of this manual are for instructional purposes only and may appear different from those on your instrument.*

## Introduction

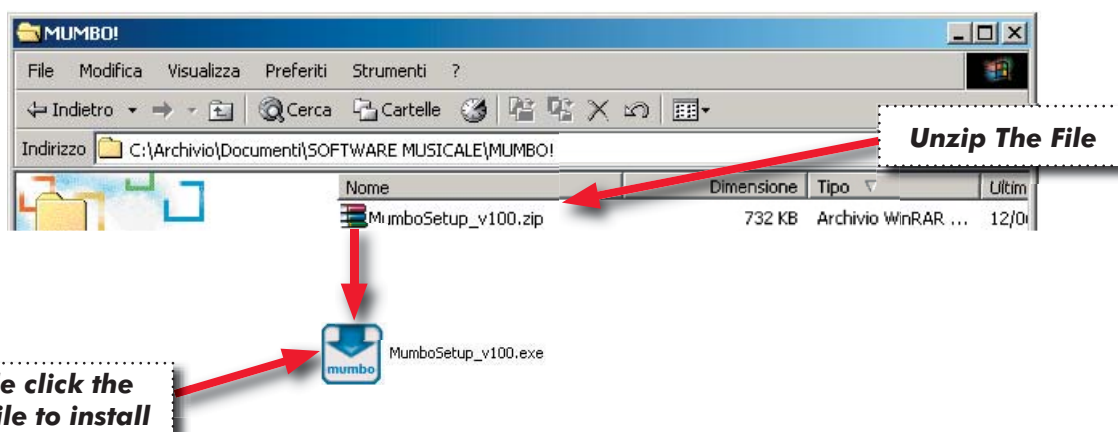
**mumbo** is a **Microsoft® Windows 2000/XP®** based application allowing connections between MIDI Devices and GEM USB-Midi Devices. Midi Devices (sometimes called Midi Ports) can be "real" or "virtual", depending on the driver they use; GEM USB-Midi Devices are intended as MIDI instruments (such as GM-X, RP-X, PRP700 or PRP800) which you can connect to a PC by a type A-B USB cable.

## Installing mumbo

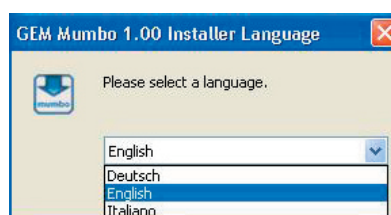
*This software application is currently compatible with the following GEM by Generalmusic instruments: GM-X sound module, RP-X sound module, PRP700 portable digital piano, PRP800 portable digital piano.*

**WARNING! Please take care do not connect any of your GEM MIDI USB device at this stage of the installation procedure.**

- 1 Firstly download and unzip the compressed installation package "MumboSetup\_v100.zip", in a directory of your PC and launch the "MumboSetup\_v100.exe". The same file can be directly launched from the installation CD Rom.

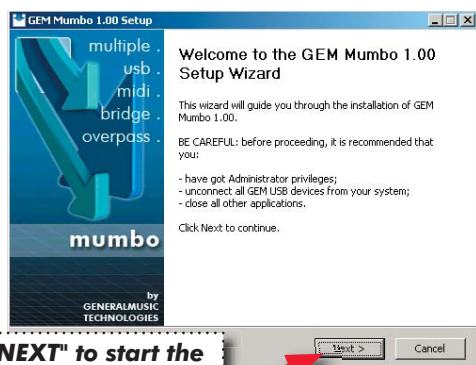


- 2 Select the application language

**Windows 2000 ®****Windows XP ®**

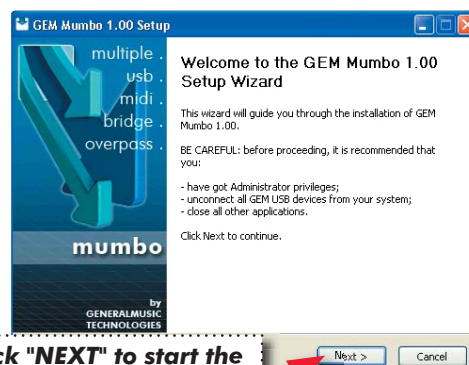
- 3 Once the installation program starts, the Welcome page will appear.

### Windows 2000 ®



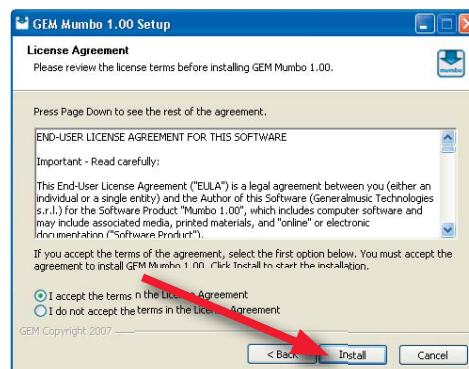
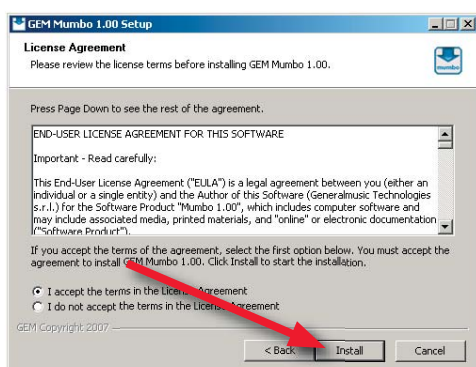
Click "NEXT" to start the mumbo installation

### Windows XP ®

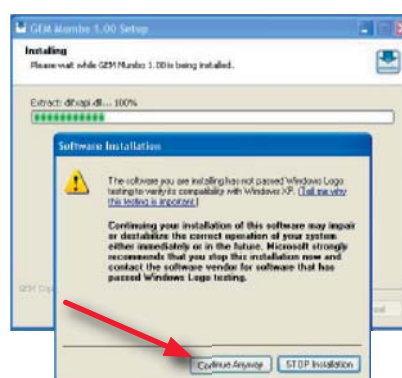
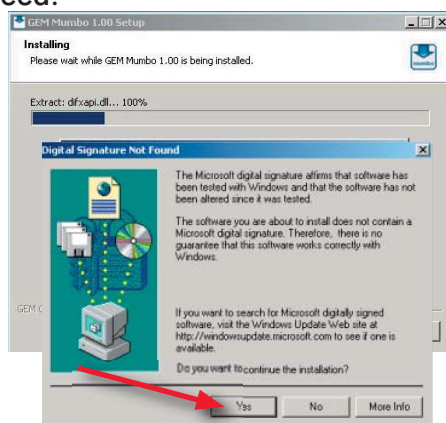


Click "NEXT" to start the mumbo installation

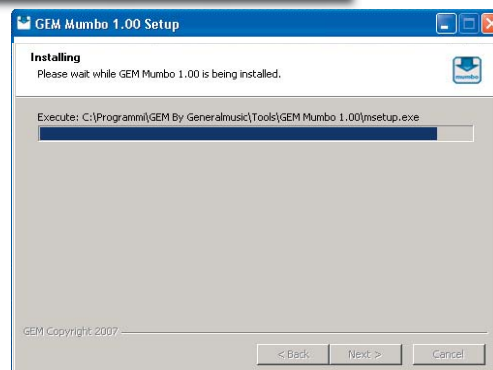
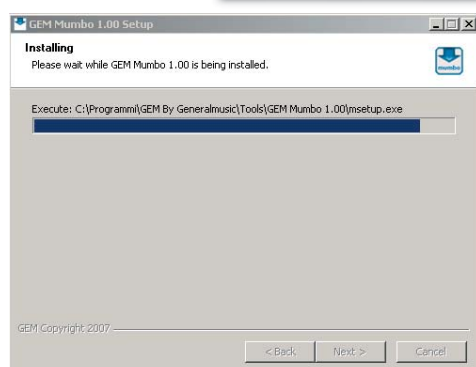
- 4 Confirm the EULA disclaimer.



- 5 The installation process starts. After few seconds the system require a further confirm to proceed.

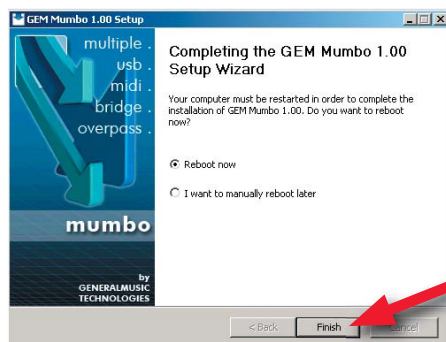


Click "YES" (or "CONTINUE") to continue.

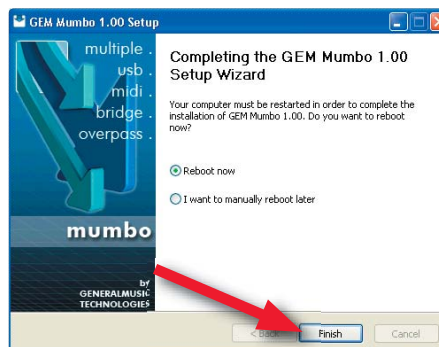


- 6 Click "FINISH" to restart your computer and complete the installation.

## Windows 2000 ®



## Windows XP ®



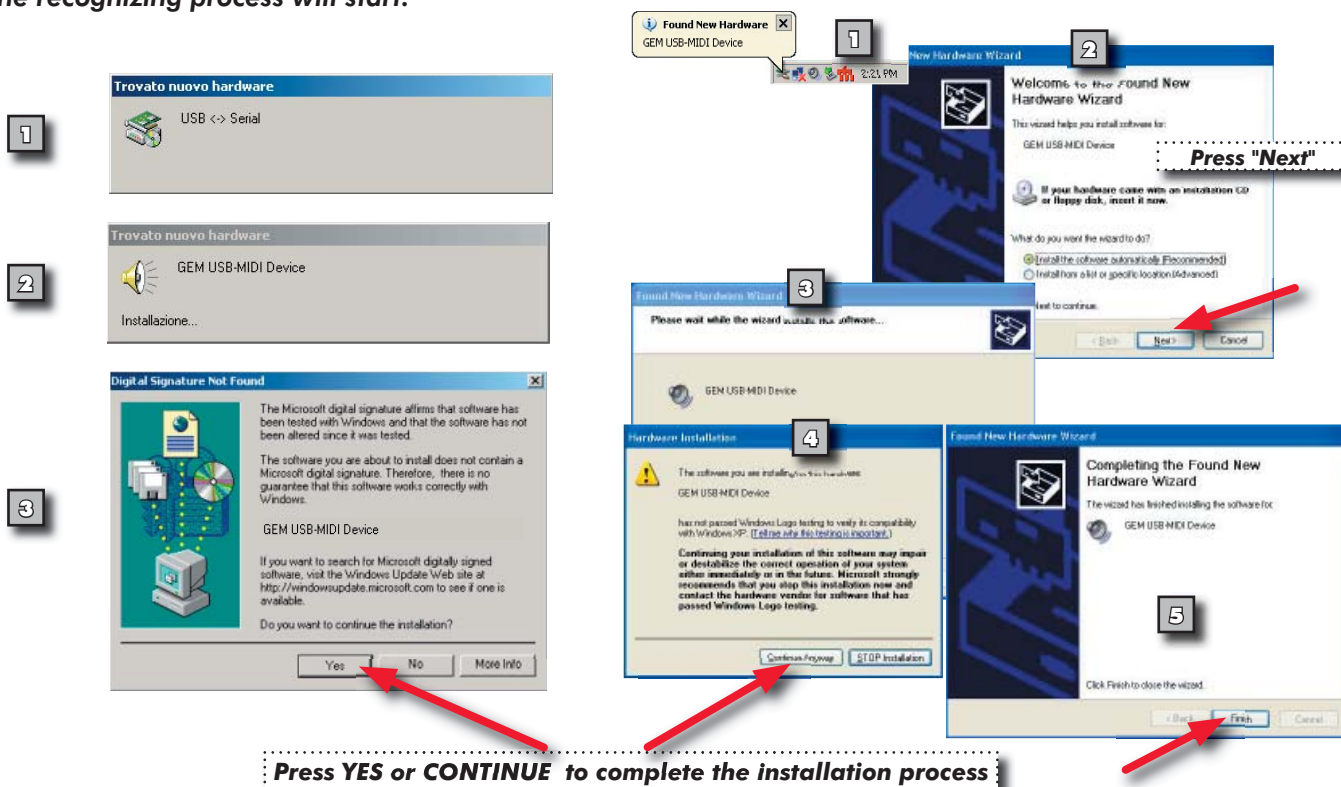
- 7 After rebooting your PC the process will be completed. You can now see the **mumbo** icon inside the Windows® tray bar.



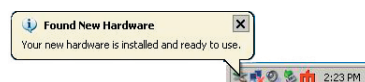
**mumbo tray bar ICON**

## Installing A New GEM Usb Midi Device

**CONNECT NOW!** Your **GEM** instrument to one of **USB** ports available on your **PC**. By few seconds the recognizing process will start.



At the end of this stage the new hardware found is ready to use, and you can check it inside the Windows hardware resources list.



**NOTE:** each new **USB MIDI** device the system will recognise in a different **USB** port will require the same procedure steps.

**NOTE:** the same **USB MIDI** device connected in a different **USB** port will be recognized by the system as a new hardware, needing the same procedure again.

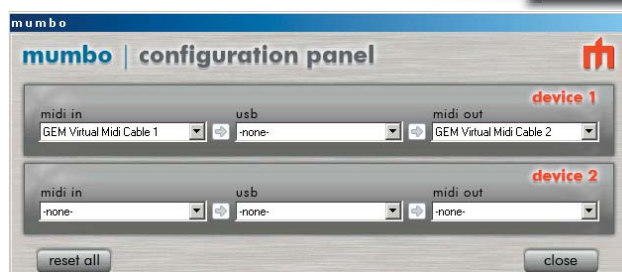


## Configuring mumbo

**mumbo** is now installed in your computer and is ready to be set up.

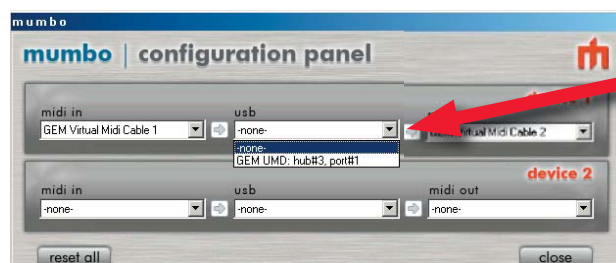


Double click the left mouse button over the mumbo icon on the tray bar to open the configuration panel.

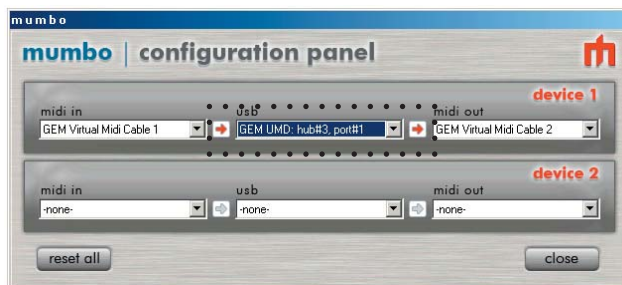


The **mumbo** configuration panel shows two connections (device 1 and device 2), but at the first opening only the USB MIDI device #1 is linked to input and output Virtual Midi Cables (see the next chapter).

Select now the **USB MIDI** device previously installed to enable the connection.



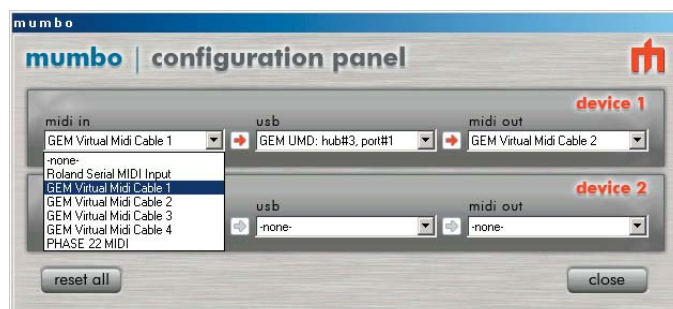
The red arrows will indicate the connection enabling.



**NOTE:** The **USB HUB** and the **USB port** displayed on the configuration panel can be different numbers depending on the machine in use.

## mumbo Virtual MIDI Cable Technology (VMC)

To give more flexibility respect of a standard USB MIDI driver, **mumbo** is designed around **VMC Technology**. As displayed on the configuration panel, four Virtual Midi Cables are available on your PC and you can access them by selecting their "ends" as Input or Output Midi Devices inside MIDI applications.

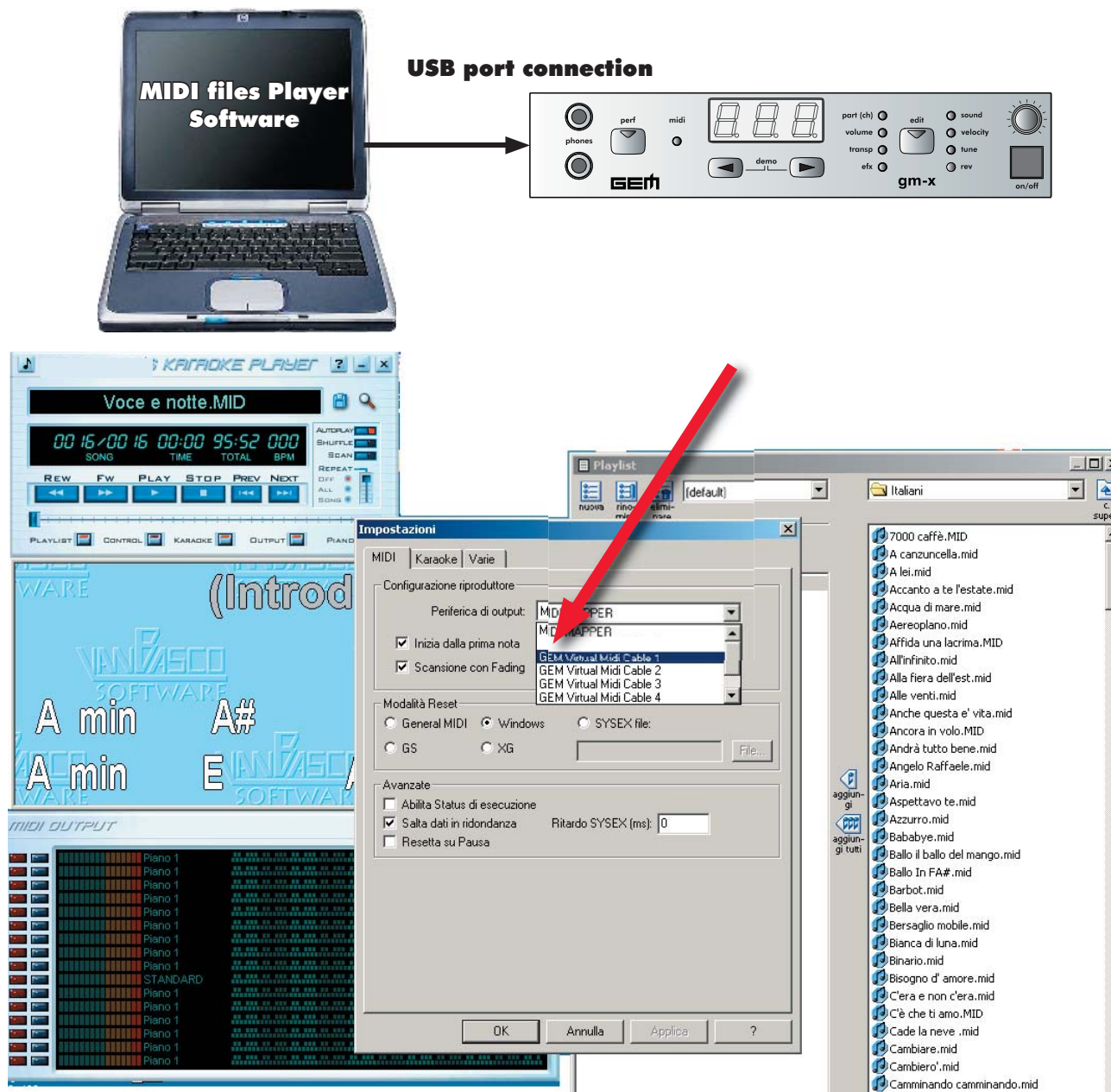


As you can see in the next example of connection, you can connect a software Midi Player (Out Midi Device: GEM Virtual Cable 1) to a GEM USB-MIDI Device such as GM-X, RP-X, PRP700 or PRP800 (GEM UMD: hub#xx, port#yy) via **mumbo**.

## Connection Example #1

**mumbo used with the GM-X module and a PC popular free midifile player**

Once **mumbo** is installed and enabled on your PC, launch the midifile player and configure it to play MIDI sequence using a GM-X module connected via USB port.



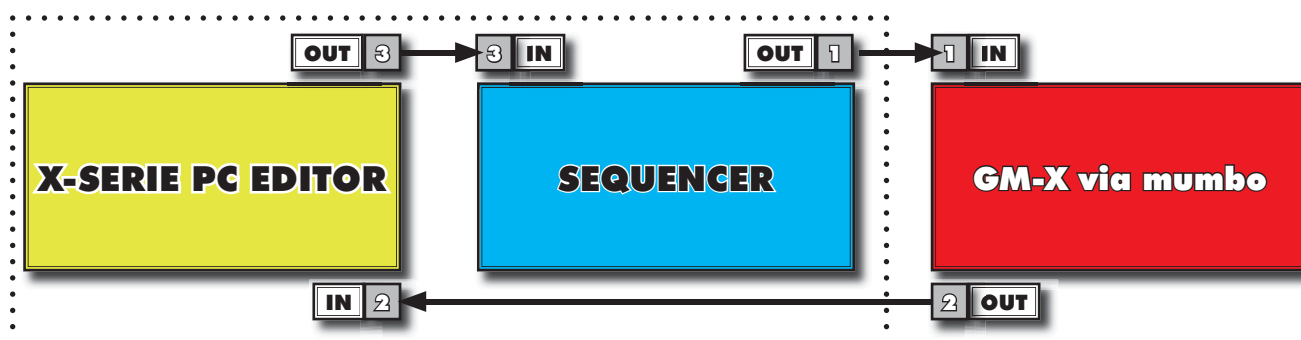
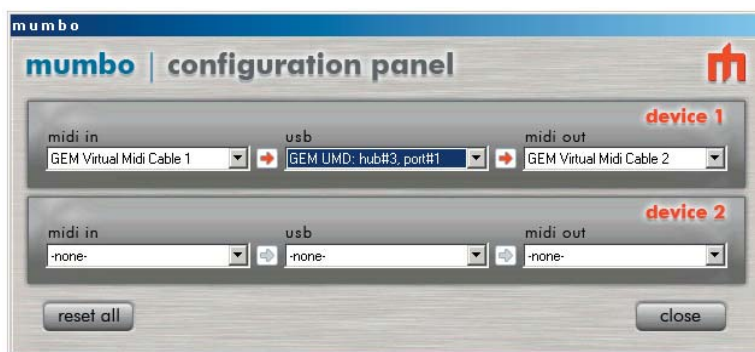
Select **mumbo** virtual MIDI cable #1 (see the technical notes on the previous chapter), on the Sequencer/Player, to play midifiles using the GM-X module.

## mumbo virtual connection



## Connection Example #2

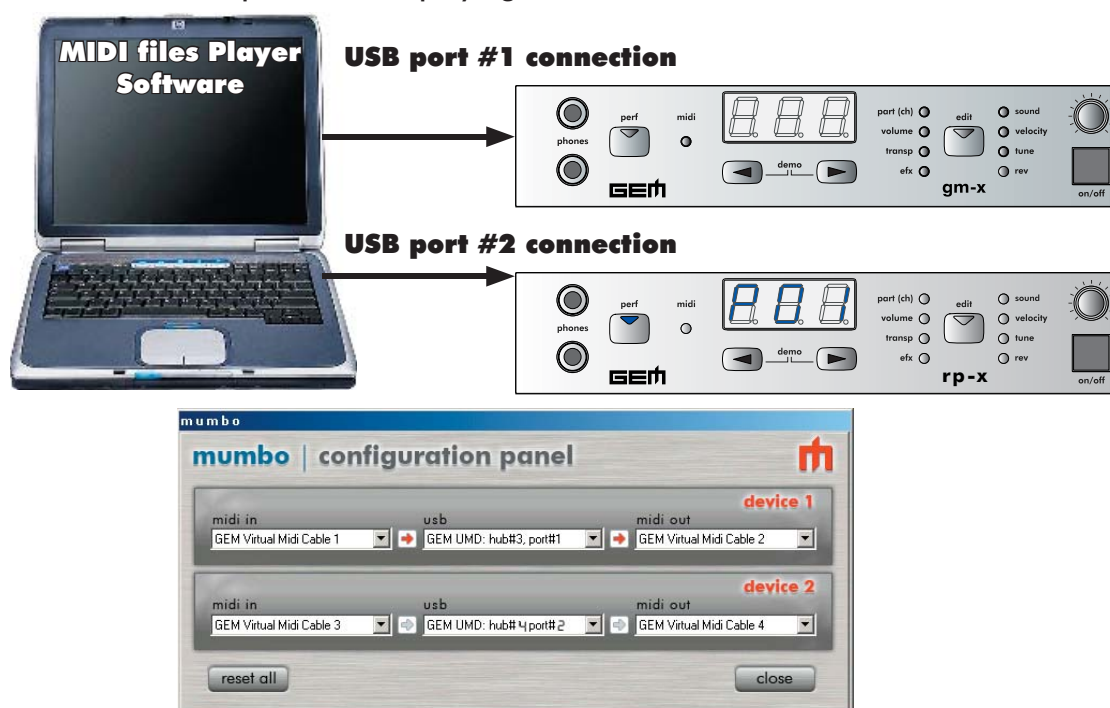
Otherwise, you can send Midi messages from a software MIDI player (Out Midi Device: GEM Virtual Cable x) to a sequencer (In Midi Device: GEM Virtual Cable x) or register System Exclusive Messages inside a Sequencer (In Midi Device: GEM Virtual Cable 3) from the GM-X (or RP-X) PC Editor (Out Midi Device: GEM Virtual Cable 3).



**mumbo** currently manages two USB MIDI Device, such as a GM-X and/or a RP-X module over two physical USB ports and 4 virtual cables in total.

## Connection Example #3

In this example two different GEM instruments, such as a GM-X and a RP-X are connected to the PC using two different USB ports and employing all the 4 virtual cables.



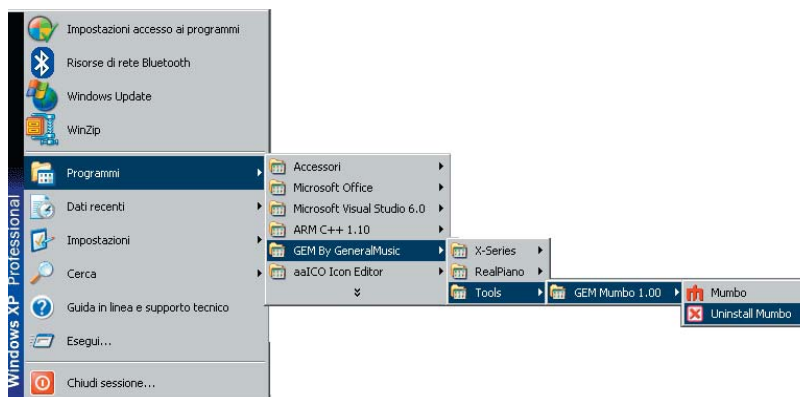


## Uninstalling mumbo

In order to uninstall **mumbo** and all his components, firstly close all other applications, disconnect every GEM USB-MIDI device from your PC and then proceed according to one of the following steps.

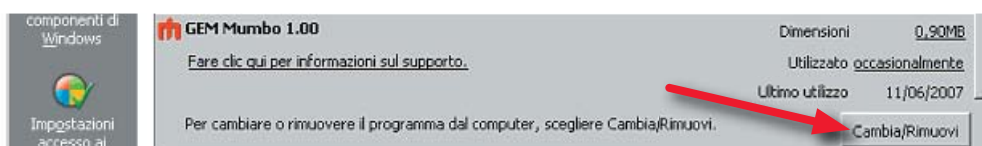
**You can Launch the unistall program "MumboUninst.exe" from:**

**START->Programs-> GEM By Generalmusic-> Tools->GEM Mumbo 1.00->UnistallMumbo.**

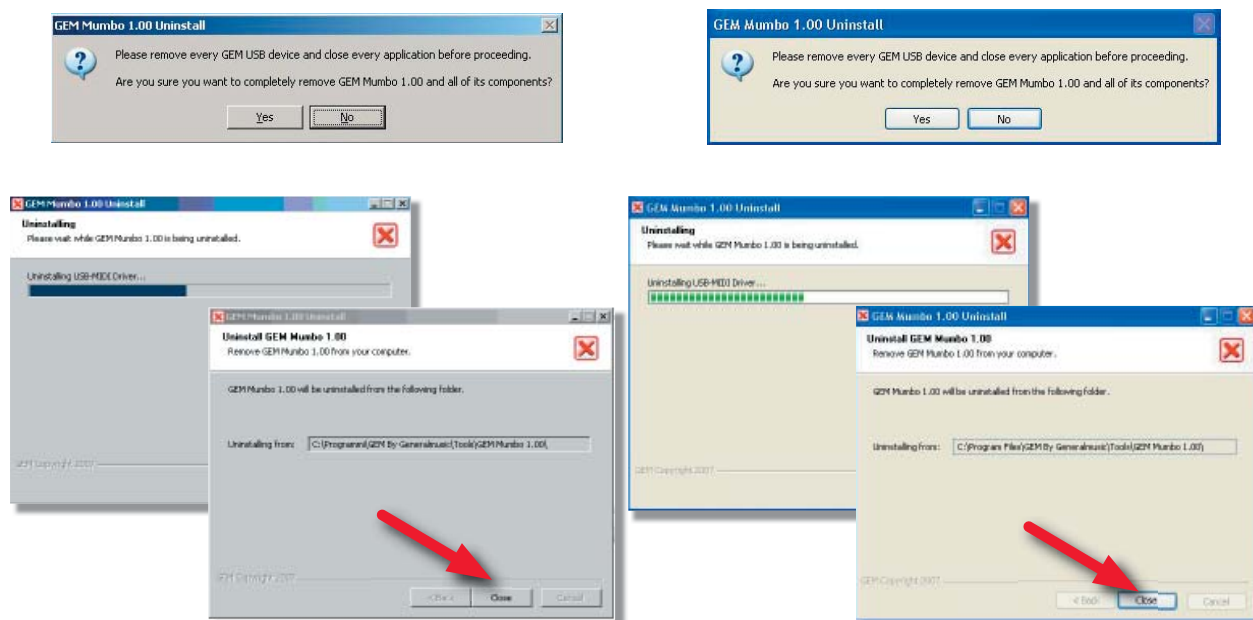


**Or from the Windows Control Panel:**

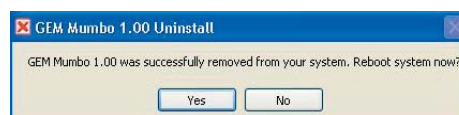
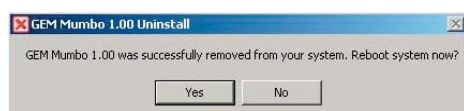
**Add/Remove Programs, select Change/Remove on GEM Mumbo 1.00.**



**3** The uninstalling process will start in the same language you selected during the first installation step.



In any case the Uninstalling procedure requires the machine reboot.



After rebooting, **mumbo** will be completely removed from your PC.

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